PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference VALS 940 B PCT FOR FURTHER		ACTION	See Form PCT/IPEA/416				
		ate (day/month/year)	Priority date (day/month/year)				
1				08.08.2003			
International Patent Classification (IPC) or national classification and IPC B05B1/34							
Applicant VALOIS	SAS						
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 							
2. This R	7						
Λ		npanied by ANNEXES, comprising					
Г	i			cheete oo fallower			
a. L				sheets, as follows:			
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
ь. Г	(sent to the	International Bureau only) a total o	f (indicate type and numbe	er of electronic carrier(s))			
	b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))						
, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4. This re							
	Box No. I	Basis of the report					
	Box No. II	Priority					
	Box No. III	Non-establishment of opinion wit	regard to novelty, inventive step and industrial applicability				
	Box No. IV	Lack of unity of invention					
	Box No. V						
	Box No. VI						
	Box No. VII	Certain defects in the international application					
	Box No. VIII	ox No. VIII Certain observations on the international application					
Date of submission of the demand Date of completion of this report							
Date of submiss	ion of the deniand		Date of completion of the	ns report			
Name and mailing address of the IPEA/EP			Authorized officer	· · · · · · · · · · · · · · · · · · ·			
Faccimile No.			Telephone No				

Translation

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/FR2004/002006

Box	ι No. I	I Basis of the report						
1.		h regard to the language, this report is based on the internati cated under this item.	onal application in the language in	which it was filed, unless otherwise				
		This report is based on translations from the original language into the following language						
		international search (Rule 12.3 and 23.1(b))						
		publication of the international application (Rule 12.	4)					
		international preliminary examination (Rule 55.2 and	1/or 55.3)					
2.	rece	eiving Office in response to an invitation under Article 14 or report):	egard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the ang Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to nort):					
	닖	the international application as originally filed/furnished	international application as originally filed/furnished					
		the description:						
		pages 1-5		as originally filed/furnished				
		pages*	_ received by this Authority on					
		pages*	_ received by this Authority on					
	\boxtimes	the claims:						
		nos.		as originally filed/furnished				
		nos.*	as amended (togethe	r with any statement) under Article 19				
			received by this Authority on	10.06.2005 with letter				
				01 00.00.2003				
		nos.*	_ received by this Authority on _					
		the drawings:						
		sheets 1/2,2/2		as originally filed/furnished				
		sheets*	_ received by this Authority on	- 1731				
		sheets*	_ received by this Authority on _					
		a sequence listing and/or any related table(s) - see Suppler	nental Box Relating to Sequence L	isting.				
3.		The amendments have resulted in the cancellation of:						
		the description, pages						
		the claims, nos.						
		the sequence listing (specify):	· · · · · · · · · · · · · · · · · · ·					
		any table(s) related to sequence listing (specify):						
			d	Part to test and a second second				
4.	Ш	This report has been established as if (some of) the amenthey have been considered to go beyond the disclosure as						
		the description, pages						
		the claims, nos.						
		the drawings, sheets/figs						
		the sequence listing (specify):						
		any table(s) related to sequence listing (specify):						
*	If ite	em 4 applies, some or all of those sheets may be marked "su						

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/FR2004/002006

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement			
	Novelty (N)	Claims 3, 4, 6, 7		
		Claims 1, 2, 5, 8-10 NO		
	Inventive step (IS)	Claims YES		
		Claims 1-10 NO		
	Industrial applicability (LA	Claims 1-10 YES		
		ClaimsNO		
2.	Citations and explanations (R	ule 70.7)		
	1. Reference is made to the following documents:			
		3 625 437 A (GARRIGOU GERARD CLAUDE) 7		
		cember 1971		
		4 923 448 A (ENNIS, III ET AL) May 1990		
	D3: FR	1 355 350 A (GREEN EDWARD H) 13 March 1964		
	D4: EP	0 412 524 A (TOKO YAKUHIN KOGYO KK) 13		
	Fe	bruary 1991		
		0 499 690 A (ELETTRO PLASTICA S.P.A) 26 August		
	19 D6: FR			
	20	-A-2 821 573 (VERBENA CORP N V) 6 September 02		
	2. D1 (see	passages cited in the international search		
	report)	describes (the references between parentheses		
ŀ	apply t	o said document):		
a spray head (2) for		head (2) for fluid, comprising a discharge		
	channel (formed inside the head 2) provided with a			
		ort (14) and a spray profile made in the bottom		
	wall of said spray head; said spray profile comprise			
		hannels (17), preferably non-radial, opening		
		central spray chamber (16) located directly m of said spray port (14); an insert (8) is		
	-	in said discharge channel (5) to form the		
		of said spray profile (10); the central axis of		
		sert (8) is substantially identical to the		
		axis of said discharge channel; said spray		
ŀ				

International application No.
PCT/FR2004/002006

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

head (2) comprises centring means (19) for centring said insert (8); said discharge channel (formed inside the head 2) comprises said centring means (19) for centring said insert (8); and said centring means (19) are formed adjacent to the spray profile.

2.1 INDEPENDENT CLAIM 1

The fact that the spray head of D1 (reference (2) in D1) is described as an "insert", and that the insert (reference (8) in D1) is referred to therein as a "cylindrical pin" does not in any way prevent said elements from being considered to correspond to the respective definitions of a spray head and an insert. The applicant's attention is also drawn to the fact that the elements (19) effectively perform the function of centring the insert (8) relative to the head (2) (see, in particular, column 2, lines 52 to 57; column 4, lines 15 to 28).

The centring means (19) described in D1 extend to the plane of the spray profile and are therefore effectively formed adjacent to the spray profile.

Consequently, D1 describes in combination all the features defined in independent claim 1. The subject matter of said claim does not meet the PCT requirements of novelty (PCT Article 33(2)).

2.2 DEPENDENT CLAIMS

The dependent claims contain no features which, when combined with the features of any one of the claims to which they refer, meet the PCT requirements of novelty (PCT Article 33(2)), for the following reasons:

2.2.1 Claim 2

The elements (19) are effectively projections, of which there are four, and the diameter of the imaginary circle described by said projections (on

International application No.
PCT/FR2004/002006

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

surface 15) is substantially identical to the diameter of the insert (8) (see column 3, lines 61 to 64)). The variant of claim 2, in which there are three projections, is novel. However, it is not inventive, as providing three projections is merely one of several obvious options that a person skilled in the art seeking to centre the insert in the head might select, depending on each particular case, and without an inventive step being involved (see for example D2, D3, D5).

2.2.2 Claim 5

Claim 5 attempts to define said subject matter by the result to be achieved (obtaining eccentricity less than 0.08 mm, preferably less than 0.03 mm), yet this merely amounts to stating the basic problem the invention is intended to solve, without providing the technical features required to achieve this result. Since the features of claim 5 do not add technical differences that enable the subject matter of said claim to be clearly differentiated from the prior art (see D1), the subject matter of claim 5 fails to meet the PCT requirements of novelty (PCT Article 33(2)).

The applicant's attention is also drawn to the fact that the tolerance of ± 0.05 mm mentioned in D1 (column 3, lines 61 to 64) appears to have the consequence of a maximum eccentricity of 0.025 mm (instance where the insert having diameter D is floating within an inscribed diameter of D+0.05 mm).

2.2.3 Claim 8,

In what follows, the expression of claim 8 "are made according to" has been taken to mean "are consistent with".

A set of heads according to the wording of claim 8 is described in D1, column 4, lines 23 to 28.

PCT/FR2004/002006

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

2.2.4 Claim 9

Claim 9 attempts to define the subject matter for which protection is sought by the result to be achieved, yet this merely amounts to stating the problem the invention is intended to solve, without providing the technical features required to achieve this result.

Since the features of claim 9 do not add technical differences that enable the subject matter of said claim to be clearly differentiated from the prior art (see D1), the subject matter of claim 9 fails to meet the PCT requirements of novelty (PCT Article 33(2)).

2.2.5 Claim 10

The spray head of D1 belongs to a dispensing device.

2.3 DEPENDENT CLAIMS 3, 4, 6, 7

Said claims contain no features which, when combined with the features of any one of the claims to which they refer, meet the PCT requirements of inventive step (PCT Article 33(3)).

2.3.1 Claim 3

The fact that the three projections are flat-shaped and symmetrically distributed is merely one of several obvious options that a person skilled in the art seeking to centre the insert in the head might select, depending on each particular case, and without an inventive step being involved (see for example D2, figure 3, 4 or D5, figure 3).

2.3.2 Claim 4

D1, which is considered to be the closest prior art, describes a spray head from which the one forming the subject matter of claim 4 differs in that the accesses from the discharge channel to the spray channels are formed between said projections.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/FR2004/002006

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The problem that the present invention is intended to solve can be considered to be that of preventing one of the accesses from being closed by the insert during assembly of the latter.

According to the description provided in D3 (see page 4, right-hand column, last paragraph, to page 5, left-hand column, first paragraph; figure 7), the distribution of the tangential channels between the flats has the same advantages as those mentioned in the present application. Consequently, the inclusion of this feature in the spray head described in D1 is a routine design measure for a person skilled in the art seeking to solve the stated problem.

The solution proposed in claim 4 of the present application is therefore considered not to meet the PCT requirements of inventive step (PCT Article 33(3)).

2.3.3 Claims 6 & 7

The features of the diameter of the spray chamber and/or the spray port mentioned in said claims are merely some of several obvious options (see D4, column 5, lines 8 to 11; D6, page 7, line 24) that a person skilled in the art seeking to obtain a spray of good quality might select, depending on each particular case, and without an inventive step being involved.